

# ROADS AND BRIDGES

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*The FY 2010-14 supports new and rehabilitated neighborhood street infrastructure including street resurfacing, new sidewalk construction, and improvements on Westfield and Hudson Streets to support the Kroc Center and the AJ Whittenberg School.*



## NEW SIDEWALK TARGETED EXPANSION PROGRAM (NSTEP)

Department:	<u>PUBLIC WORKS</u>	Ranking:	<u>GROUP C</u>
Status of Project:	<u>REVISION</u>	Start/Finish Dates:	<u>JULY 1999</u>   <u>JUN 2020+</u>
Strategic Goal:	<u>2, 5</u>	Project Number:	<u>DF3312</u>

### Project Description:

NSTEP (New Sidewalk Targeted Expansion Program) was developed in response to concerns expressed by City residents. It is an ongoing project designed to construct sidewalks on at least one side of every street within the City of Greenville. As part of NSTEP, not only is sidewalk with a curb lawn constructed, but as part of the improvements, curb, gutter, and storm drainage improvements are also made to the street.

### Project Justification (Including Relationship to City Strategic Plan Goals/Objectives):

Based on public desire, it was determined that development of a new sidewalk program would benefit the City and its residents. These include safety to pedestrians by providing a designated area to travel, traffic calming from the addition of curb and gutter, meeting accessibility requirements, providing landscaping, and improving aesthetics.

### Method for Estimating Cost:

Based on a per linear foot cost developed from NSTEP rounds one through five.

### Project Status (As of January 1, 2009):

Round six design will begin during the first quarter of 2009.

### Other Special Considerations (Future Expansion/Special Features/Etc.):

The City is using in-house design and in-house surveying for round six of NSTEP.

OMB estimate of projected operating costs includes \$5,000 of maintenance per mile installed.

PROJECT ITEMS	FUNDING TO-DATE	FY 09/10 COST	FY 10/11 COST	FY 11/12 COST	FY 12/13 COST	FY 13/14 COST	TOTAL PROJECT COST
Planning/Design	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Acquisition Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Improvements	\$5,398,671	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$7,898,671
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL PROJECT COST</b>	<b>\$5,398,671</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$7,898,671</b>
PROJECT FUNDING SOURCES (LIST)	FUNDING TO-DATE	FY 09/10 EST. FUNDS	FY 10/11 EST. FUNDS	FY 11/12 EST. FUNDS	FY 12/13 EST. FUNDS	FY 13/14 EST. FUNDS	TOTAL PROJECT FUNDING
State "C" Funds	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000
Greenville County	\$48,671	\$0	\$0	\$0	\$0	\$0	\$48,671
General Fund Transfer	\$4,350,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$6,850,000
General Obligation Bond - 2001	\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000
General Obligation Bond - 2006	\$350,000	\$0	\$0	\$0	\$0	\$0	\$350,000
<b>TOTAL PROJECT FUNDING</b>	<b>\$5,398,671</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$7,898,671</b>
OPERATIONAL COSTS							
Operating Impact		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000
Cumulative Operating Impact		\$5,000	\$10,000	\$15,000	\$20,000	\$25,000	\$25,000
FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00
Cumulative FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00

## STREET RESURFACING

Department:	<u>PUBLIC WORKS</u>	Ranking:	<u>GROUP B</u>
Status of Project:	<u>CONTINUATION</u>	Start/Finish Dates:	<u>JULY 2006</u>   <u>ON-GOING</u>
Strategic Goal:	<u>5</u>	Project Number:	<u>PW3396</u>

### Project Description:

In FY 2007-08, this project permitted the resurfacing of approximately 17 lane miles of streets. An additional \$150,000 was matched by the Greenville County Transportation Committee, and this permitted the resurfacing of an additional 4.45 lane miles of streets.

However, the City is behind and continues to fall further behind in performing the necessary maintenance required to effectively maintain the approximately 600 lane miles of City streets, primarily because of the rapid increase in asphalt prices.

### Project Justification (Including Relationship to City Strategic Plan Goals/Objectives):

All City streets have been rated through a Pavement Quality Index (PQI). For approximately the past seven years \$500,000 has been spent rehabilitating the streets based on a priority of "worst to first." Over the past few years, approximately 25% of these streets had to be removed and replaced prior to the asphalt concrete surfacing course being placed. This indicates that the City of Greenville is in a "catch-up" mode. To maximize the expenditure of the maintenance dollar, it is imperative that all the streets within the City of Greenville receive maintenance on a regular basis.

Currently, the City's streets are being inventoried again by the City's consultant, and an updated PQI will be established for each street segment.

### Method for Estimating Cost:

Lump sum and a cost estimate is prepared after the streets selected for rehabilitation are prioritized.

### Project Status (As of January 1, 2009):

Streets to be rehabilitated during the FY 2009-10 need to be prioritized. It is anticipated that a pavement resurfacing project will be advertised in March 2009.

### Other Special Considerations (Future Expansion/Special Features/Etc.):

Plans are to develop a crack sealing program and evaluate the merits of slurry sealing with the objective of maximizing the money that is appropriated yearly for pavement rehabilitation. Additionally, in the future, sidewalks will need to be upgraded in conjunction with the street segments that are rehabilitated to comply with the Americans with Disabilities Act.

PROJECT ITEMS	FUNDING TO-DATE	FY 09/10 COST	FY 10/11 COST	FY 11/12 COST	FY 12/13 COST	FY 13/14 COST	TOTAL PROJECT COST
Planning/Design	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Acquisition Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Improvements	\$1,500,000	\$580,586	\$500,000	\$500,000	\$500,000	\$500,000	\$4,080,586
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL PROJECT COST</b>	<b>\$1,500,000</b>	<b>\$580,586</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$4,080,586</b>
PROJECT FUNDING SOURCES (LIST)	FUNDING TO-DATE	FY 09/10 EST. FUNDS	FY 10/11 EST. FUNDS	FY 11/12 EST. FUNDS	FY 12/13 EST. FUNDS	FY 13/14 EST. FUNDS	TOTAL PROJECT FUNDING
Greenville County	\$0	\$80,586	\$0	\$0	\$0	\$0	\$80,586
General Fund Transfer	\$1,500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$4,000,000
<b>TOTAL PROJECT FUNDING</b>	<b>\$1,500,000</b>	<b>\$580,586</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$500,000</b>	<b>\$4,080,586</b>
OPERATIONAL COSTS							
Operating Impact		\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Operating Impact		\$0	\$0	\$0	\$0	\$0	\$0
FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00
Cumulative FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00

## FAIRFOREST WAY REHABILITATION

Department:	<u>PUBLIC WORKS</u>	Ranking:	<u>N/A</u>
Status of Project:	<u>CONTINUATION</u>	Start/Finish Dates:	<u>APR 2007</u>   <u>OCT 2010</u>
Strategic Goal:	<u>3, 5</u>	Project Number:	<u>PW3397</u>

### Project Description:

This project includes a total rehabilitation of roadway infrastructure along a 2.1 mile section of Fairforest Way. The new road will be a four-lane divided arterial street with curb and gutter, sidewalks with curb lawns, landscape plantings, and raised planted median islands. The curb lanes will have shared bicycle lanes in each direction. Additionally, a new signal is planned for the Mauldin Road intersection and possibly at the Wenwood Drive intersection. A signal upgrade to mast arm poles is planned for the existing span wire signal at Ridge Road.

### Project Justification (Including Relationship to City Strategic Plan Goals/Objectives):

Fairforest Way provides an alternate transportation link to I-85 from Mauldin Road to Woodruff Road via Millennium Boulevard and Carolina Point Parkway. However, the existing pavement along Fairforest Way has deteriorated to a very substandard condition. Increased development in the area, along with new residential housing, also warrant the need for full pedestrian and bicycle accommodations. The road will complement Millennium Boulevard and Carolina Point Parkway.

### Method for Estimating Cost:

Engineering estimate.

### Project Status (As of January 1, 2009):

Construction bidding phase tentatively scheduled for first quarter 2009.

### Other Special Considerations (Future Expansion/Special Features/Etc.):

OMB estimate of operating costs includes the cost associated with a new rights-of-way crew to maintain the reconstructed Fairforest Way, Carolina Point Parkway, and the ICAR campus.

PROJECT ITEMS	FUNDING TO-DATE	FY 09/10 COST	FY 10/11 COST	FY 11/12 COST	FY 12/13 COST	FY 13/14 COST	TOTAL PROJECT COST
Planning/Design	\$310,000	\$0	\$0	\$0	\$0	\$0	\$310,000
Site Acquisition Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Improvements	\$6,650,000	\$0	\$0	\$0	\$0	\$0	\$6,650,000
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Management	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
<b>TOTAL PROJECT COST</b>	<b>\$7,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,000,000</b>
PROJECT FUNDING SOURCES (LIST)	FUNDING TO-DATE	FY 09/10 EST. FUNDS	FY 10/11 EST. FUNDS	FY 11/12 EST. FUNDS	FY 12/13 EST. FUNDS	FY 13/14 EST. FUNDS	TOTAL PROJECT FUNDING
Federal Appropriation - SAFETEA-LU	\$5,600,000	\$0	\$0	\$0	\$0	\$0	\$5,600,000
State Revenue	\$15,787	\$0	\$0	\$0	\$0	\$0	\$15,787
General Obligation Bond - 2006	\$706,000	\$0	\$0	\$0	\$0	\$0	\$706,000
Property Sales	\$678,213	\$0	\$0	\$0	\$0	\$0	\$678,213
<b>TOTAL PROJECT FUNDING</b>	<b>\$7,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,000,000</b>
OPERATIONAL COSTS							
Operating Impact		\$0	\$0	\$119,364	\$96,529	\$100,309	\$316,202
Cumulative Operating Impact		\$0	\$0	\$119,364	\$215,893	\$316,202	\$316,202
FTEs Added		0.00	0.00	2.00	0.00	0.00	2.00
Cumulative FTEs Added		0.00	0.00	2.00	2.00	2.00	2.00

## ICAR ROAD "C"

Department:	<u>PUBLIC WORKS</u>	Ranking:	<u>N/A</u>
Status of Project:	<u>CONTINUATION</u>	Start/Finish Dates:	<u>APR 2007</u>   <u>MAR 2010</u>
Strategic Goal:	<u>3, 5</u>	Project Number:	<u>PW3398</u>

**Project Description:**

Two sections of Road "C" will need to be designed and constructed. The first section provides access to the Red Roof Inn and will close off the existing SC Department of Transportation (SCDOT) frontage road at Laurens Road, which has become a safety concern because of the close proximity to the I-85 northbound on-ramp. The second section of road provides secondary access to the Hubbell Lighting property and the Millennium Campus from Millennium Boulevard. Both roads will terminate in cul-de-sacs. This will eliminate a costly bridge and railroad crossing that would have been required if they were connected to each other as originally proposed.

**Project Justification (Including Relationship to City Strategic Plan Goals/Objectives):**

As part of the SCDOT Encroachment Permit for Millennium Boulevard at Laurens Road (US-276), the State requested that the City close off the existing frontage road that parallels I-85 and provide alternate access to the existing Red Roof Inn. There is one culvert crossing that will require a permit from the US Army Corps of Engineers.

**Method for Estimating Cost:**

Engineering estimate based on recent projects of this size.

**Project Status (As of January 1, 2009):**

Roadway plans are at 90% level. Application for the US Army Corps of Engineers 404/401 Permit has been submitted to Charleston office. The City will need to purchase 189 Mitigation Bank Credits in order to construct culvert crossing for the lower section of Road C. Engineering expects to advertise for construction in early 2009.

**Other Special Considerations (Future Expansion/Special Features/Etc.):**

OMB estimate of operating costs includes projected materials and supplies associated with maintaining the roadway.

PROJECT ITEMS	FUNDING TO-DATE	FY 09/10 COST	FY 10/11 COST	FY 11/12 COST	FY 12/13 COST	FY 13/14 COST	TOTAL PROJECT COST
Planning/Design	\$111,000	\$0	\$0	\$0	\$0	\$0	\$111,000
Site Acquisition Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Improvements	\$1,381,000	\$0	\$0	\$0	\$0	\$0	\$1,381,000
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Management	\$8,000	\$0	\$0	\$0	\$0	\$0	\$8,000
<b>TOTAL PROJECT COST</b>	<b>\$1,500,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,500,000</b>
PROJECT FUNDING SOURCES (LIST)	FUNDING TO-DATE	FY 09/10 EST. FUNDS	FY 10/11 EST. FUNDS	FY 11/12 EST. FUNDS	FY 12/13 EST. FUNDS	FY 13/14 EST. FUNDS	TOTAL PROJECT FUNDING
Federal Appropriation - SAFETEA-LU	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$1,200,000
State Revenue	\$166,000	\$0	\$0	\$0	\$0	\$0	\$166,000
General Obligation Bond - 2003	\$134,000	\$0	\$0	\$0	\$0	\$0	\$134,000
<b>TOTAL PROJECT FUNDING</b>	<b>\$1,500,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,500,000</b>
OPERATIONAL COSTS							
Operating Impact		\$0	\$0	\$2,000	\$2,000	\$2,000	\$6,000
Cumulative Operating Impact		\$0	\$0	\$2,000	\$4,000	\$6,000	\$6,000
FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00
Cumulative FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00



BIKE LANE PROGRAM					
Department:	PUBLIC WORKS		Ranking:	GROUP C	
Status of Project:	REVISION		Start/Finish Dates:	JULY 2008	JUN 2014
Strategic Goals:	2, 5		Project Number:	PW3402	

**Project Description:**

This project provides for the installation of bicycle lanes in concert with the Bike Lane Program plan approved by City Council.

The estimated cost for the eradication (i.e., grinding) of existing thermoplastic pavement markings and the installation of new ones will need to be completed by a qualified contractor who has the required equipment needed for this type of work. The Bike Lane Program will have recurring capital costs of \$45,000 per year for professional services associated with the pavement markings.

The following streets are scheduled to be striped with bicycle lanes in 2009: Cleveland Street, McDaniel Avenue, McAlister Road, and Greenacre Road.

**Project Justification (Including Relationship to City Strategic Plan Goals/Objectives):**

The implementation of bike lanes provides both recreational and multi-modal transportation opportunities. This is one component of making Greenville a pedestrian and bicycle-friendly community by providing this accommodation. The Traffic Engineering Division does not have the equipment available for striping substantial lengths of roadways. This type of work is best handled by the use of a qualified contractor who has a paint truck that specializes in thermoplastic pavement markings. Bike lanes are a key component of providing a multi-modal travel system and will serve as connectors to trails being planned and built off-road.

**Method for Estimating Cost:**

Estimate based on previous pavement marking contracts issued by the City.

**Project Status (As of January 1, 2009):**

This project is currently funded. To date, the following streets have been striped with bicycle lanes: Vardry Street, Hillside Drive, Orchard Park Drive, and Southland Drive. The project will be suspended in FY 2009-10 due to budget constraints.

PROJECT ITEMS	FUNDING TO-DATE	FY 09/10 COST	FY 10/11 COST	FY 11/12 COST	FY 12/13 COST	FY 13/14 COST	TOTAL PROJECT COST
Planning/Design	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Acquisition Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Improvements	\$45,000	\$0	\$45,000	\$45,000	\$45,000	\$45,000	\$225,000
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL PROJECT COST</b>	<b>\$45,000</b>	<b>\$0</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$225,000</b>
PROJECT FUNDING SOURCES (LIST)	FUNDING TO-DATE	FY 09/10 EST. FUNDS	FY 10/11 EST. FUNDS	FY 11/12 EST. FUNDS	FY 12/13 EST. FUNDS	FY 13/14 EST. FUNDS	TOTAL PROJECT FUNDING
General Fund Transfer	\$45,000	\$0	\$45,000	\$45,000	\$45,000	\$45,000	\$225,000
<b>TOTAL PROJECT FUNDING</b>	<b>\$45,000</b>	<b>\$0</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$45,000</b>	<b>\$225,000</b>
OPERATIONAL COSTS							
Operating Impact		\$0	\$0	\$0	\$0	\$0	\$0
Cumulative Operating Impact		\$0	\$0	\$0	\$0	\$0	\$0
FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00
Cumulative FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00

## HUDSON/WESTFIELD STREET IMPROVEMENTS

Department:	<u>PUBLIC WORKS</u>	Ranking:	<u>GROUP A</u>
Status of Project:	<u>REVISION</u>	Start/Finish Dates:	<u>MAR 2010</u>   <u>JUN 2011</u>
Strategic Goal:	<u>1, 4, 5, 6</u>	Project Number:	<u>ED3411</u>

### Project Description:

Proposed improvements along South Hudson Street and Westfield Street to coincide with opening of AJ Whittenberg school and the Kroc Center. The project is to include curb, gutter, sidewalk, curb lawn, some roadway rehabilitation, and landscaping from West Washington Street to Academy Street. This would also include ADA ramps, rehabilitation of sidewalks and/or streets, enhanced landscaping, and gateways at selected points.

### Project Justification (Including Relationship to City Strategic Plan Goals/Objectives):

The initial improvements are required to provide a safe connection to the AJ Whittenberg School and West Washington Street. Improvements will not require right-of-way acquisition at this point. Later phases would improve public access and enhance visual appearances in the surrounding areas.

### Method for Estimating Cost:

Engineering estimate based on recent project costs and current material costs used in Public Works projects.

### Project Status (As of January 1, 2009):

Project scope has been revised.

### Other Special Considerations (Future Expansion/Special Features/Etc.):

This project will be done in conjunction with a joint application with the School District for State "C" Funds. The City will contribute \$100,000; the School District will contribute \$200,000; and State "C" Funds will contribute \$1,000,000.

OMB estimate of operating costs includes \$5,000 in additional sidewalk and landscape maintenance due to the upgrade of the roads adjacent to the project site.

PROJECT ITEMS	FUNDING TO-DATE	FY 09/10 COST	FY 10/11 COST	FY 11/12 COST	FY 12/13 COST	FY 13/14 COST	TOTAL PROJECT COST
Planning/Design	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Site Acquisition Costs	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Improvements	\$160,000	\$768,614	\$500,000	\$0	\$0	\$0	\$1,428,614
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL PROJECT COST</b>	<b>\$160,000</b>	<b>\$768,614</b>	<b>\$500,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,428,614</b>
PROJECT FUNDING SOURCES (LIST)	FUNDING TO-DATE	FY 09/10 EST. FUNDS	FY 10/11 EST. FUNDS	FY 11/12 EST. FUNDS	FY 12/13 EST. FUNDS	FY 13/14 EST. FUNDS	TOTAL PROJECT FUNDING
Property Sales	\$160,000	\$0	\$0	\$0	\$0	\$0	\$160,000
Capital Projects Fund	\$0	\$68,614	\$0	\$0	\$0	\$0	\$68,614
Greenville County School District	\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000
State "C" Funds	\$0	\$500,000	\$500,000	\$0	\$0	\$0	\$1,000,000
<b>TOTAL PROJECT FUNDING</b>	<b>\$160,000</b>	<b>\$768,614</b>	<b>\$500,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,428,614</b>
OPERATIONAL COSTS							
Operating Impact		\$0	\$5,000	\$5,125	\$5,253	\$5,384	\$20,763
Cumulative Operating Impact		\$0	\$5,000	\$10,125	\$15,378	\$20,763	\$20,763
FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00
Cumulative FTEs Added		0.00	0.00	0.00	0.00	0.00	0.00